

## ABSTRACT

A liquid fuel supply type fuel cell of a simple configuration, capable of supplying sufficient oxygen to a cathode electrode is provided.

In a fuel cell 100 including a membrane-electrode assembly 101 in which a polymer electrolyte film 114 is sandwiched between an anode electrode 102 and a cathode electrode 108, an separation membrane 330 including a material having an oxygen/nitrogen separation coefficient more than one is arranged on the surface of a cathode electrode side diffusion layer 110 constituting the cathode electrode 108.